CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

Job No.: CTCE/BBMP/MHSPL/W.No.14/CSR-03/005a/CE34DNT/2017-18 Date: 30.03.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasenahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Maxp Energy Solution Pvt Ltd (Mr. Manoj),** No.743, 80 feet Main Road, BSK, 3rd Stage, Bangalore - 85.
* Name of Work	:	Improvements to CC roads and drains at Harmoor Layout to Bagalgunte in Ward No. 14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/398/2017-18 Dated: 28.03.2018
* Sample ID	:	Cement
Sample Received on	:	28.03.2018
Period of Testing	:	28.03.2018 to 30.03.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (R.A-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (R.A-2009)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (R.A-2009)	400 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatlier Method	IS-4031 (Part-3) 1988 (R.A-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/ Representative.

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- The results indicated above are based on the tests carried out on the samples received in the laboratory.
- Any Query regarding the report must be reported within 30 days from the date of testing.

VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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T-2377

Job No.: CTCE/BBMP/MESPL/W.No.14/CSR-03/605a/SAND-Gradation/2017-18 30.03.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Maxp Energy Solution Pvt Ltd** (Mr. Manu), No.743, 80 feet Main Road, BSK, 3rd Stage, Bangalore - 85.
* Name of Work	:	Improvements to CC roads and drains at Havnoor Layout in Bagalagunte in Ward No. 14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/398/2017-18 Dated: 28.03.2018
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2007)
Sample Received On	:	28.03.2018
Date of Testing	:	30.03.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	82.00	60-95	75-100	85-100	95-100
1.18	64.50	30-70	55-90	75-100	90-100
600 Micron	44.50	15-34	35-59	60-79	80-100
300 Micron	24.70	5-20	8-30	12-40	15-50
150 Micron	5.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com

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Job No.: CTCE/BBMP/MESPL/W.No.14/CSR-03/605a/AGG/GR/2017-18 30.03.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Maxp Energy Solution Pvt Ltd** (Mr. Manu), No.743, 80 feet Main Road, BSK, 3rd Stage, Bangalore - 85.
* Name of Work	:	Improvements to CC roads and drains at Havnoor Layout in Bagalagunte in Ward No. 14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/398/2017-18 Dated: 28.03.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	28.03.2018
Date of Testing	:	30.03.2018

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.60	95-100	85-100
20	40.48	30-70	0-20
10	20.02	10-35	0-5
4.75	4.32	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/MESPL/W.No.14/Steel/2017-18 31.03.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Maxp Energy Solution Pvt Ltd** (Mr. Manu), No.743, 80 feet Main Road, BSK, 3rd Stage, Bangalore - 85.
* Name of work	:	Improvements to CC roads and drains at Havnoor Layout in Bagalagunte in Ward No. 14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/398/2017-18 Dated: 28.03.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	31.03.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	556	13.2	O.K	O.K

*Information is furnished by the Customer/Representative.

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Civil-tech Consultants & Engineers
#23/14, 7th Cross 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/MESPL/W.No.14/Steel/2017-18 31.03.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Maxp Energy Solution Pvt Ltd** (Mr. Manu), No.743, 80 feet Main Road, BSK, 3rd Stage, Bangalore - 85.
* Name of work	:	Improvements to CC roads and drains at Havnoor Layout in Bagalagunte in Ward No. 14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/398/2017-18 Dated: 28.03.2018
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	31.03.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	518	559	13.4	O.K	O.K

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#23/14, 7th Cross 3rd Stage 4th Block,
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Job No.: CTCE/BBMP/MESPL/W.No.14/CSR-03/605a/Cube/2017-18 01.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Maxp Energy Solution Pvt Ltd** (Mr. Manu), No.743, 80 feet Main Road, BSK, 3rd Stage, Bangalore - 85.
* Name of the work	:	Improvements to CC roads and drains at Havnoor Layout in Bagalagunte in Ward No. 14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/398/2017-18 Dated: 28.03.2018
* Sample ID	:	Drain Bottom Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.04.2018	01.05.2018	8.167	373.5	16.60
2	03.04.2018	01.05.2018	8.280	382.4	17.00
3	03.04.2018	01.05.2018	8.305	390.7	17.36

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Job No.: CTCE/BBMP/MESPL/W.No.14/CSR-03/605a/Cube/2017-18

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore
* Agency	:	M/s. Maxp Energy Solution Pvt Ltd (Mr. Mona), No.743, 80 feet Main Road, BSK, 3rd Stage, Bangalore - 85.
* Name of the work	:	Improvements to CC roads and drains at Harmony Layout in Begalagunte in Ward No. 14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/398/2017-18 Dated: 28.05.2018
* Sample ID	:	Drain Bottom Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	01.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.04.2018	01.05.2018	8.102	376.8	16.75
2	03.04.2018	01.05.2018	8.217	385.4	17.13
3	03.04.2018	01.05.2018	8.350	398.7	17.72

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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